BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Construction of tank and providing pump set for de-watering in flood areas in ward no. 05 Jakkur, Byatarayanapura Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 01		Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m and as per the directions of the Engineer-in-charge of the work .									
Measurements Taken On :											
		Sump	Cum	1	8.45	3.55	3.55	3.55	2.95	88.49	
		For Drain									
		JNRC Circle									
0.00	11.85		Cum	1	11.85	1.30	1.30	1.30	1.15	17.72	
		Culvert									
		JNRC Circle									
			Cum	1	8.50	1.65	1.65	1.65	1.20	16.83	
		Rangoli Garden Gate									
			Cum	1	9.50	1.30	1.30	1.30	1.15	14.20	
		For Drain Desilt									
		Palanahalli Lake Front									
0.00	30.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
30.00	60.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
60.00	90.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
90.00	120.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
120.00	150.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
150.00	180.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
180.00	210.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
210.00	240.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
240.00	270.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
270.00	300.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
300.00	330.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
330.00	360.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
360.00	390.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
390.00	420.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
420.00	450.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
450.00	480.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
480.00	510.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
510.00	540.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
540.00	570.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
570.00	600.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
600.00	630.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
630.00	660.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	
660.00	690.00		Cum	1	30.00	0.90	0.90	0.90	0.90	24.30	

696.14

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
690 00	720 00		Cum	1	30 00	0 90	0 90	0 90	0 90	24 30	
720 00	750 00		Cum	1	30 00	0 90	0 90	0 90	0 90	24 30	
750 00	780 00		Cum	1	30 00	0 90	0 90	0 90	0 90	24 30	
780 00	800 00		Cum	1	20 00	0 90	0 90	0 90	0 90	16 20	
		telecom Layout									
		10th Cross Road									
		LHS									
0 00	30 00		Cum	1	30	0 60	0 60	0 60	0 60	10 80	
30 00	60 00		Cum	1	30	0 60	0 60	0 60	0 60	10 80	
60 00	90 00		Cum	1	30	0 60	0 60	0 60	0 60	10 80	
90 00	120 00		Cum	1	30	0 60	0 60	0 60	0 60	10 80	
120 00	150 00		Cum	1	30	0 60	0 60	0 60	0 60	10 80	
150 00	166 50		Cum	1	16 5	0 60	0 60	0 60	0 60	5 94	
		RHS									
0 00	30 00		Cum	1	30	0 6	0 6	0 6	0 6	10 80	
30 00	60 00		Cum	1	30	0 6	0 6	0 6	0 6	10 80	
60 00	90 00		Cum	1	30	0 6	0 6	0 6	0 6	10 80	
90 00	120 00		Cum	1	30	0 6	0 6	0 6	0 6	10 80	
120 00	150 00		Cum	1	30	0 6	0 6	0 6	0 6	10 80	
150 00	166 50		Cum	1	16 5	0 6	0 6	0 6	0 6	5 94	
		Mcechs Layout									
		14th Cross Road									
0 00	15 00		Cum	1	15	0 60	0 60	0 60	0 60	5 40	
15 00	30 00		Cum	1	15	0 60	0 60	0 60	0 60	5 40	
30 00	45 00		Cum	1	15	0 60	0 60	0 60	0 60	5 40	
45 00	62 70		Cum	1	17 7	0 60	0 60	0 60	0 60	6 37	
									TOTAL	927.69	

Contractor

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item No. 02		Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. and as per the directions of the Engineer-in-charge of the work .									
Measurements Taken On :											
		Sump	Cum	1	8.45	3.55	3.55	3.55	0.30	9.00	
									TOTAL	9.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 03		Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates. Specification and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Sump	Cum	1	8.45	3.55	3.55	3.55	0.15	4.50	
		For Drain									
		JNRC Circle									
0.00	11.85		Cum	1	11.85	1.30	1.30	1.30	0.15	2.31	
		Culvert									
		JNRC Circle									
			Cum	1	8.50	1.65	1.65	1.65	0.15	2.10	
		Rangoli Garden Gate									
			Cum	1	9.50	1.30	1.30	1.30	0.15	1.85	
									TOTAL	10.76	

Contractor

Assistant Executive Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item No. 04		Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Sump									
		Long Wall	Sqm	4	8.45				2.50	84.50	
		Short Wall	Sqm	4	2.60				2.50	26.00	
									TOTAL	110.50	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item No. 05		Providing Flush / Ruled/ Struck or weathered pointing Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Sump									
		Long Wall	Sqm	2	8.45				2.40	40.56	
		Short Wall	Sqm	2	2.60				2.40	12.48	
									TOTAL	53.04	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item No. 06		Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA). and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Sump									
		Bottom Concrete	Cum	1	7.65	2.60	2.60	2.60	0.15	2.98	
		Slab Concrete	Cum	1	8.45	3.40	3.40	3.40	0.20	5.75	
									TOTAL	8.73	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.08		Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		For sump	Tonne		From Calculation Sheeet					838.88	
									TOTAL	838.88	

Contractor

Assistant Executive Engineer

PREMEASUREMENT SHEET - First & Final Bill

Measurements	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
Chainage			mm			m	m	m	m	kg/m	Kg's
Item no.08	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) and as per the direction of Engineer in charge of the work.										
Measurements taken on											
	Sump										
	Bottom Slab	1.00									
	12# @100c/c on outer Face main		12.00	27.00	27.00	7.65	0.00	7.65	206.55	0.89	183.83
	10# @100c/c dis		10.00	77.50	77.50	2.60	0.00	2.60	201.50	0.62	124.93
	Cover Slab	1.00									
	12# @100c/c on outer Face main		12.00	35.00	35.00	8.45	1.01	9.46	331.10	0.89	294.68
	10# @100c/c dis		10.00	85.50	85.50	3.40	0.84	4.24	362.52	0.62	224.76
	Diagonal Bars	1.00	12.00	4.00	4.00	3.00	0.00	3.00	12.00	0.89	10.68
										Total Steel Quantity in Kg	838.88

Contractor

Assistant Engineer

22/11/22

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.09		Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Tonne		From Calculation Sheeet					0.82	
									TOTAL	0.82	

Contractor

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Construction of tank and providing pump set for de-watering in flood areas in ward no. 05 Jakkur, Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

SI NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.09	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. and as per the direction of Engineer in charge of the work.								
	Measurements Taken On;								
	Present Bill Measurements								
	For RCC Drain								
	JNRC Circle								
	Main Bars (#10@180 c/c)	1	10	66	66	3.15	207.90	0.62	128.90
	Distribution(17-#8)	1	8	17	17	11.85	201.45	0.39	78.57
	For Culvert								
	JNRC Circle								
	10# @180 c/c main	1	10	47	47	6.70	314.90	0.62	195.24
	8# @200 c/c Distrubution bars	1	8	34	34	8.50	289.00	0.39	112.71
	10# @180 c/c main	1	10	53	53	5.95	315.35	0.62	195.52
	8# @200 c/c Distrubution bars	1	8	30	30	9.50	285.00	0.39	111.15
								TOTAL QTY IN KG'S	**822.09**
								TOTAL QTY IN TONNE	**0.82**

Contactor

Assistant Engineer

Assistant executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.12		Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Cum		Qty Vide From item no 01					927.69	
									TOTAL	927.69	

Contractor

Assistant Engineer

24/11/22

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.13		Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Qty Vide From Item 12	tkm		927.69		1.28			1187.44	
									TOTAL	1187.44	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.14		Providing Lubi make 10 HP 3 Phase dewatering submersible pump with outlet 4" and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		10hp	no	1						1.00	
									TOTAL	1.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.15		Providing 160 mm PVC pipe 6 kg/sqcm and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		pvc pipe	mtr	1	15.00					15.00	
									TOTAL	15.00	

Contractor

28/11/22
Assistant Engineer

28/11
Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.16		Providing and fixing 160 mm PVC elbow and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			no	5						5.00	
									TOTAL	5.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.17		Providing and fixing 160 mm PVC collar and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			no	3						3.00	
									TOTAL	3.00	

2

Contractor

Assistant Engineers

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.18		Provding and fixing 160 mm PVC ball wall and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			no	2						2.00	
									TOTAL	2.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.19		Providing and fixing MS gate of size 0.6x0.6 mtr and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			no	1						1.00	
									TOTAL	1.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.20		Providing MS cover with frame of size 0.9x0.9 mtr and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			no	1						1.00	
									TOTAL	1.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.21		Supplying of 1.1KV LT UG cable XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Rmtr	1	18.00					18.00	
									TOTAL	18.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.22		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Rmtr	1	18.00					18.00	
									TOTAL	18.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.23		Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Rmtr	1	18.00					18.00	
									TOTAL	18.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET										
FIRST AND FINAL BILL										
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.24		Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Each	1						1.00	
									TOTAL	1.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.25		Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
			Sqcm	1	1100.00	20.00	20.00	20.00		22000.00	
									TOTAL	22000.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.26		Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work.									
Measurements Taken On :											
			no	1						1.00	
									TOTAL	1.00	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.27		Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Sqm	1	7.60	5.55	5.70	5.63		42.79	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Sqm	1	15.00	7.60	7.70	7.65		114.75	
15.00	30.00		Sqm	1	15.00	7.70	7.70	7.70		115.50	
30.00	45.00		Sqm	1	15.00	7.70	7.60	7.65		114.75	
45.00	62.70		Sqm	1	17.70	7.60	7.60	7.60		134.52	
									Total Executed Quantity	522.31	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.28		Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Cum	1	7.60	5.55	5.70	5.63	0.10	4.28	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Cum	1	15.00	7.60	7.70	7.65	0.10	11.48	
15.00	30.00		Cum	1	15.00	7.70	7.70	7.70	0.10	11.55	
30.00	45.00		Cum	1	15.00	7.70	7.60	7.65	0.10	11.48	
45.00	62.70		Cum	1	17.70	7.60	7.60	7.60	0.10	13.45	
									Total Executed Quantity	**52.24**	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.29		Construction of Granular Sub-Base of required grading as per design spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with front end loader at OMC and compacting with vibratory roller to achieve the desired density, complete as per clause 401 B.Place Mix Method (v) For Grading -V Material and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Cum	1	7.60	5.55	5.70	5.63	0.15	6.42	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Cum	1	15.00	7.60	7.70	7.65	0.15	17.21	
15.00	30.00		Cum	1	15.00	7.70	7.70	7.70	0.15	17.33	
30.00	45.00		Cum	1	15.00	7.70	7.60	7.65	0.15	17.21	
45.00	62.70		Cum	1	17.70	7.60	7.60	7.60	0.15	20.18	
									Total Executed Quantity	**78.35**	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.30		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Cum	1	7.60	5.55	5.70	5.63	0.25	10.70	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Cum	1	15.00	7.60	7.70	7.65	0.25	28.69	
15.00	30.00		Cum	1	15.00	7.70	7.70	7.70	0.25	28.88	
30.00	45.00		Cum	1	15.00	7.70	7.60	7.65	0.25	28.69	
45.00	62.70		Cum	1	17.70	7.60	7.60	7.60	0.25	33.63	
									Total Executed Quantity	**130.59**	

Contractor

5/1/23
Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.31		Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Sqm	1	7.60	5.55	5.70	5.63		42.79	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Sqm	1	15.00	7.60	7.70	7.65		114.75	
15.00	30.00		Sqm	1	15.00	7.70	7.70	7.70		115.50	
30.00	45.00		Sqm	1	15.00	7.70	7.60	7.65		114.75	
45.00	62.70		Sqm	1	17.70	7.60	7.60	7.60		134.52	
									Total Executed Quantity	522.31	

Contractor

Assistant Engineer

PREMEASUREMENT SHEET											
FIRST AND FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.32		Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	30.00		Sqm	1	30.00	5.55	5.70	5.63		168.90	
30.00	60.00		Sqm	1	30.00	5.70	5.80	5.75		172.50	
60.00	90.00		Sqm	1	30.00	5.80	5.50	5.65		169.50	
90.00	120.00		Sqm	1	30.00	5.50	5.65	5.58		167.40	
120.00	150.00		Sqm	1	30.00	5.65	5.45	5.55		166.50	
150.00	166.50		Sqm	1	16.50	5.45	5.85	5.65		93.23	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Sqm	1	15.00	7.60	7.70	7.65		114.75	
15.00	30.00		Sqm	1	15.00	7.70	7.70	7.70		115.50	
30.00	45.00		Sqm	1	15.00	7.70	7.60	7.65		114.75	
45.00	62.70		Sqm	1	17.70	7.60	7.60	7.60		134.52	
									Total Executed Quantity	1417.55	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.33		Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		telecom Layout									
		10th Cross Road									
0.00	7.60		Cum	1	7.60	5.55	5.70	5.63	0.05	2.14	
		Mcechs Layout									
		14th Cross Road									
0.00	15.00		Cum	1	15	7.6	7.7	7.65	0.05	5.74	
15.00	30.00		Cum	1	15	7.7	7.7	7.7	0.05	5.78	
30.00	45.00		Cum	1	15	7.7	7.6	7.65	0.05	5.74	
45.00	62.70		Cum	1	17.7	7.6	7.6	7.6	0.05	6.73	
									Total Executed Quantity	26.13	

Contractor

Assistant Engineer

Assistant Executive Engineer

PREMEASUREMENT SHEET												
FIRST AND FINAL BILL												
Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
E1		Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid In layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) and as per the direction of Engineer in charge of the work.									
Measurements Taken On :												
		Palanahalli Lake Front										
0.00	30.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
30.00	60.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
60.00	90.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
90.00	120.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
120.00	150.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
150.00	180.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
180.00	210.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
210.00	240.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
240.00	270.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
270.00	300.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
300.00	330.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
330.00	360.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
360.00	390.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
390.00	420.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
420.00	450.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
450.00	480.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
480.00	510.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
510.00	540.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
540.00	570.00		Cum	1	30.00	0.90	0.90	0.90	0.15	4.05		
570.00	572.00		Cum	1	2.00	0.90	0.90	0.90	0.15	0.27		
									Total Executed Quantity	77.22		

15/12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

Contractor

15/12/22
Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

15/12
Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ